# 25 mm LASER TRACKBALL

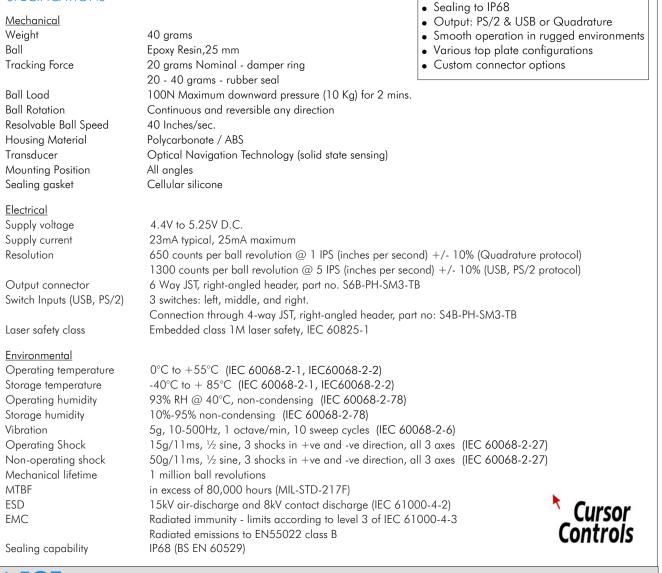
### X25

Utilizing the latest and most advanced laser tracking technology, the X25 Series laser Trackerball<sup>™</sup> is an extremely high specification, contact-less device, ideal for the most demanding of cursor control applications.

The laser tracking engine provides accurate cursor motion at all speeds and on virtually any ball, combining the benefits of solid state sensing (no moving parts except the ball). The X25 trackballs are available with a variety of electrical outputs and sealing to IP68. The solid state design allows the device to be subjected to extreme conditions and provides the user with the ability to wash down, decontaminate, and sterilise, making it the ideal trackball for a wide range of demanding applications and environments.

The unit has been designed to be back of panel mounted as part of OEM keyboards and consoles.





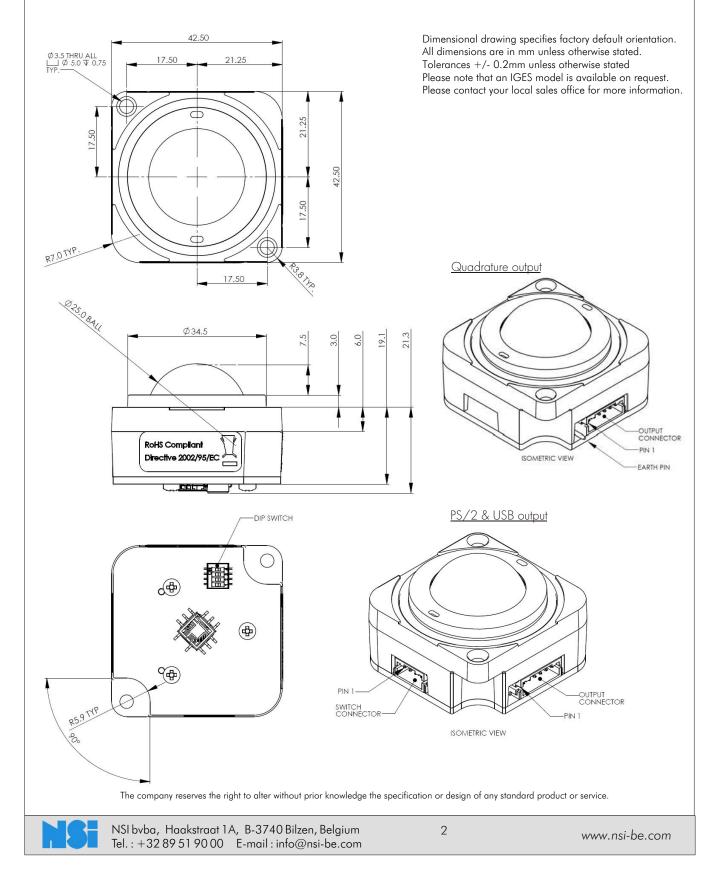
NSI

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 Solid state sensing technology Laser tracking engine

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### DIMENSIONAL DRAWING



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### CONNECTION DETAILS QUADRATURE OUTPUT

Output Connector : P1

Description: 6 Way JST, right-angled header. Manufacturer: JST (or equivalent) Part No: S6B-PH-SM3-TB Mating connector: PH, CR or KR types (e.g. PHR-6)

Pin Number	Quadrature
1	X1
2	X2
3	Vcc
4	Y1
5	Y2
6	GND

### CONNECTION DETAILS PS/2 - USB OUTPUT

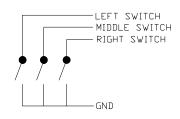
Output Connector : P1

Description: 6 Way JST, right-angled header. Manufacturer: JST (or equivalent) Part No: S6B-PH-SM3-TB Mating connector: PH, CR or KR types (e.g. PHR-6)

Pin Number	PS/2 & USB
1	EARTH
2	See note 1
3	5V D.C
4	PS/2 Data, D-
5	PS/2 Clock, D+
6	OV

Note 1 : Pin to be left floating (unconnected)

Switch Schematic



### OPTIONAL LEAD ASSEMBLIES

Standard Lead assemblies for connection to the X25 unit are available. Other lead assemblies can also be supplied to customer specifications.

Part Number	Leads / Adapters	Description
OC6006160	Output cable PS/2	1,6 m shielded cable with 6 pin mini DIN plug
OC5006160	Output cable USB	1,6 m shielded cable with USB type A plug
IC040035	Switch Input	4 way JST style - bare wires, 35 cm long
IC060635	Interconnection	Interconnection cable, 35 cm long



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Switch Input Connector : P2

Description: 4-way JST, right-angled header. Manufacturer: JST (or equivalent) Part No: S4B-PH-SM3-TB Mating connector: PH, CR or KR types (e.g. PHR-4)

Pin Number	Function
1	Left switch
2	Middle switch
3	Right switch
4	OV

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### CONFIGURATION

The X25 trackball provides features that may be selected using the DIP switch located on the printed circuit board. This table details the assigned function of each switch.

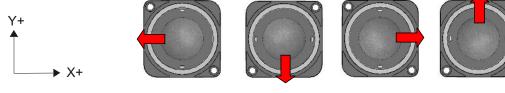
#### **DIP Switch Functions**

DIP Switch	Function	OFF	ON
1	Orientation 1 Setting	See Figure.1	See Figure.1
2	Orientation 2 Setting	See Figure.1	See Figure.1
3	Factory setting	N/A	N/A
4	Not used	N/A	N/A

#### Factory default setting: All DIP switches OFF

#### **Orientation**

The orientation function allows the user to mount the X25 trackball device in one of four positions (see figure. 1 below). The orientation of the device is determined by the direction in which the output connector is facing (when viewed from the top of Trackerball device). The trackball orientation can be selected to accommodate customer requirements for connector location and wiring.



Switch 1 Orientation 1	Off	On	Off	On
Switch 2 Orientation 2	Off	Off	On	On

Figure.1 Mounting Orientations

### ORDER INFO

OUTPUT	DAMPER RING	RUBBER SEAL
Quadrature	X25-70021D	X25-70022D
PS/2 & USB	X25-76021D	X25-76022D

MANUFACTURER Cursor Controls Ltd, Brunel Drive, Newark, U.K Tel: ++44 (0) 1636 615600 Fax: ++44 (0) 1636 615601 Website : www.cursorcontrols.com E-mail: sales@cursorcontrols.com



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